

ABSTRACT OF THE INVENTION

An integrated optical parametric oscillator, having an optical parametric oscillation region to convert a pump source into a signal beam and an idler beam, and a fine-steering region to adjust optical path of the signal beam in order to finely select a required wavelength component of the signal beam. The optical parametric oscillator is contoured with a plurality of exterior planes with specific reflective characteristics to form a resonator of the idler beam while reflecting and diffracting the signal beam with a desired wavelength.